

Name \_\_\_\_\_

## Elementary Exploration: Unraveling the Differences Among Elements

### Multiple Choice Questions

1. What does an element's atomic number represent?
  - a) Its atomic mass
  - b) The number of neutrons in its nucleus
  - c) The number of protons in its nucleus
  - d) The number of electrons in its outermost shell
  
2. How do elements in the same group on the periodic table typically behave chemically?
  - a) They have different numbers of valence electrons.
  - b) They have similar chemical properties.
  - c) They are usually solids at room temperature.
  - d) They have the same atomic mass.
  
3. Which element is known for its reddish-brown color?
  - a) Oxygen
  - b) Hydrogen
  - c) Copper
  - d) Nitrogen
  
4. What property of elements determines whether they are solids, liquids, or gases at room temperature?
  - a) Atomic number
  - b) Atomic mass
  - c) Electron configuration
  - d) Density
  
5. Why are some elements considered toxic?
  - a) Because they have a high atomic number
  - b) Because they are rare in nature
  - c) Because they can harm living organisms in certain forms or concentrations
  - d) Because they have a low electron configuration

